

AMENDMENTS TO THE CLAIMS

What is Claimed is:

1 – 9 (Cancelled)

10. (New) A testing device for detecting and locating an arcing fault in an electrical system having a plurality of electrical conductors, said arcing fault having a plurality of characteristics, said testing device comprising:

means for locating the electrical conductors of said electrical system;

means for detecting at least one of the characteristics of said arcing fault proximate one of said electrical conductors and outputting a responsive signal; and

means for annunciating said responsive signal when said means for detecting is proximate said arcing fault; and

wherein said means for locating the electrical conductors comprises means for generating a signal having a frequency in said electrical conductors, means for detecting said signal having the frequency proximate one of said electrical conductors and outputting a second responsive signal; and means for annunciating said second responsive signal when said means for detecting said signal having the frequency is proximate said one of said electrical conductors.

11. (Cancelled)

12. (Currently Amended) The testing device as recited in Claim 11 wherein said means for generating a signal having a frequency comprises an alternating current plug having at least two prongs, and a transmitter structured to generate said signal having the frequency between the prongs of said alternating current plug.

13. (Original) The testing device as recited in Claim 12 wherein the prongs of said alternating current plug are structured to engage an alternating current receptacle.

14. (New) A testing device for detecting faults in an electrical system, and for detecting and locating an arcing fault in said electrical system, said arcing fault having a plurality of characteristics, said testing device comprising:

means for testing said electrical system to detect at least one fault in said electrical system;

means for detecting at least one of the characteristics of said arcing fault proximate said arcing fault and outputting a responsive signal;

means for annunciating said responsive signal when said means for detecting is proximate said arcing fault; and

wherein said means for testing includes means for conducting a ground fault test of said electrical system; and

wherein said means for conducting a ground fault test includes first means for engaging a line conductor of said electrical system, second means for engaging a ground conductor of said electrical system; and means for adjusting a load between said first and second means, in order to provide between about 6 to 100 mA of leakage current in said line conductor and said ground conductor.

15- 25 (Cancelled)